TECHNICAL DATA SHEET

CyFlow™ CD82 FITC
Anti-Hu; Clone C33

REF **AY389610**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD82
Alternative Names	R2l 4F9, C33
Clone	C33
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	C91/PL (human HTLV-1+ T cell line)

Specificity

The mouse monoclonal antibody C33 recognizes CD82 antigen, a widely expressed cell surface protein of the tetraspanin family. CD82 is also found in endosome/lysosome compartments.

Contact Information:

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD82 (KAI1), a member of the tetraspanin family, forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules. These complexes influence adhesion, morphology, activation, proliferation and differentiation of B, T and other cells. CD82 regulates cytoskeleton rearrangement and may participate in the turnover of the tetraspanin complex members. Besides in the plasma membrane, CD82 is localized also in endosome/lysosome compartments. Tumor-suppressive roles of CD82 have been demonstrated.

References

- Fukudome K, Furuse M, Imai T, Nishimura M, Takagi S, Hinuma Y, Yoshie O: Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen in HTLV-1-positive T cells. J Virol. 1992 Mar; 66(3):1394-401. < PMID: 1738199 >
- Imai T, Yoshie O: C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and associate with each other and with CD4 or CD8 in T cells. J Immunol. 1993 Dec 1; 151(11):6470-81. < PMID: 8245480 >

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- Imai T, Kakizaki M, Nishimura M, Yoshie O: Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82. J Immunol. 1995 Aug 1; 155(3):1229-39. < PMID: 7636191 >
- Ueda T, Ichikawa T, Tamaru J, Mikata A, Akakura K, Akimoto S, Imai T, Yoshie O, Shiraishi T, Yatani R, Ito H, Shimazaki J: Expression of the KAI1 protein in benign prostatic hyperplasia and prostate cancer. Am J Pathol. 1996 Nov; 149(5):1435-40. < PMID: 8909232 >
- Escola JM, Kleijmeer MJ, Stoorvogel W, Griffith JM, Yoshie O, Geuze HJ: Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes. J Biol Chem. 1998 Aug 7; 273(32):20121-7. < PMID: 9685355 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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